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The World Trade Center Electrical/HVAC Upgrade Program

ELECTRICAL

No.	Date	Revision	Approved
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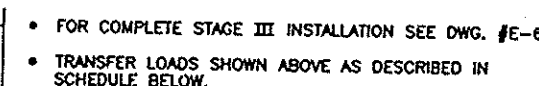
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LEAHY/
FISCHER LEAHY A.S.
Designed by Drawn by Checked by

Date 5-1-85 Scale AS NOTED

Contract Number Drawing Number

WTC 802.071 E-13



SCHEDULE - STAGE III, STEP (H) - TRANSFER LOADS TO BUS #1, 2 & E1 LOAD OUTAGES - SEE NOTE #5

CONDUIT DESIGNATION	CATEGORY "A" OR "B"	
<u>BANK ELEVATORS -</u> R-4 NORMAL FEEDER TO BUS #1 a. - INSTALL R-4 CDT & WIRE FROM SWGR. BUS #1 TO BUS #1 VIA TRANSFER SWITCH (ENERGIZE) A-3 EMERG. FEEDER TO BUS #2 a. - CUT EXIST. CDT. A-2 (2 CDT'S) & REMOVE BACK TO EXIST. SWGR. b. - INSTALL CDT. A-3 FROM TRANSFER SWITCH TO ONE EXIST. A-2 CDT & CONNECT. c. - INSTALL FDR A-3 FROM TRANSFER SWITCH TO P.B.#1. d. - "Y" SPLICE TO EXIST. FDR A-3 IN P.B.#1. (ENERGIZE) C CONTROL FOR BANK ELEVATORS a. - DISCONNECT EXIST. AND CONNECT CONTROL WIRING DESIGNATED (2) ON DWG E-97. R-13 BANK "D" ELEV'S. a. - CUT EXIST. CDT'S. X-3 & 4. REMOVE BACK TO EXISTING SUBSTATION b. - INSTALL CDT R-13 FROM BUS #1 TO EXIST. CDT'S. X-3 & 4, CONNECT. c. - INSTALL FDR R-13 FROM BUS #1 TO P.B.#1 LEAVING SLACK FOR PULL TO PNL #1 EL-A42W. * - DISCONNECT, REMOVE EXIST. & INSTALL FDR R-13 IN EXIST CDT TO PNL #1 EL-A42W (ENERGIZE) e. - REMOVE EXIST. FDR R-13 BACK TO SWGR. R-10 BANK "A" ELEV. a. - CUT EXIST. CDT. R-13 (2 CDT'S) & REMOVE BACK TO EXIST. SWGR. b. - INSTALL CDT R-10 FROM BUS #1 TO ONE EXIST. CDT. (R-13) & CONNECT. c. - INSTALL FDR R-10 FROM BUS #1 TO P.B. #1. * - CUT EXIST. FDR (R-10) IN P.B. #1 AND SPLICE TO LOAD SIDE. (ENERGIZE) d. - REMOVE EXIST. FDR R-10 BACK TO SWGR. R-11 BANK "B" ELEV. a. - INSTALL CDT. R-11 FROM BUS #1 TO EXIST. CDT. (R-13) & CONNECT. b. - INSTALL FDR R-11 FROM BUS #1 TO P.B. #1. * - CUT EXIST. FDR R-11 IN P.B. #1 AND SPLICE TO LOAD SIDE. (ENERGIZE) d. - REMOVE EXIST. FDR R-11 BACK TO SWGR.	R-12 BANK "C" ELEV. a. - CUT EXIST. CDT. R-11 & REMOVE BACK TO EXIST. SWGR. b. - INSTALL CDT R-12 FROM BUS #1 TO EXIST. CDT. (R-11) & CONNECT c. - INSTALL FDR R-12 FROM BUS #1 TO P.B. #1. * - CUT EXIST. FDR R-12 IN P.B. #1 AND SPLICE TO LOAD SIDE. (ENERGIZE) e. - REMOVE EXIST. FDR R-12 BACK TO SWGR. R-4 DISCONNECT EXIST. ELEVATOR TRANSFER SWITCH (A-3) a. - REMOVE FDR R-4 FROM EXIST. SWGR TO TRANSF. SW. * - CUT TEMP. "Y" SPLICE FDR A-3 IN P.B. #1. REMOVE TAB "Y" EXIST. TRANSF. SW & REMAKE SPLICE (ENERGIZE) C CONTROL FOR BANK ELEVATORS a. - DISCONNECT & REMOVE CONTROL WIRING FROM EXIST. TERMINAL CABINET TO EXIST. TRANSFER SWITCH, DESIGNATED (2) ON DWG E-86 R-5 MOTOR CONTROL CENTER MCC-N-41R a. - INSTALL R-5 CDT & WIRE FROM SWGR. BUS #2 TO MCC-N-41R * - DISCONNECT EXIST. & CONNECT FDR R-5 A1 MCC-N-41R (ENERGIZE) c. - REMOVE EXIST. FDR BACK TO SWGR. R-BT EMERGENCY LIT. a. - CUT EXIST. CDT R-10 & REMOVE BACK TO SUBSTATION b. - INSTALL CDT R-BT FROM SWGR. BUS #2 TO CDT. (R-10) & CONNECT. c. - INSTALL FDR R-BT FROM SWGR. BUS #2 TO P.B. #1. * - CUT EXIST. FDR R-BT IN P.B. #1 & REMOVE BACK TO EXIST. SWGR. e. - SPLICE TO EXIST. FDR (R-BT) IN P.B. #1 (ENERGIZE) R-3 WATER SUPPLY PUMPS a. - INSTALL CDT R-3 FROM SWGR BUS #2 TO EXIST. P.B. #6 b. - INSTALL FDR R-3 FROM SWGR. BUS #6 TO P.B. #6 * - CUT EXIST. FDR R-3 IN P.B. #6 & REMOVE BACK TO EXIST. SWGR. d. - SPLICE TO EXIST. FDR (R-3) IN P.B. #6. (ENERGIZE)	1-6 PANEL DP-41N a. - INSTALL 1-6 CDT. & WIRE FROM SWGR. BUS #1 TO PNL DP-41N. * - DISCONNECT TEMPORARY & CONNECT FDR 1-6 AT PANEL (ENERGIZE) c. - REMOVE TEMPORARY FDR. BACK TO SWGR. d. - INSTALL REMAINDER OF CKTS IN PANEL DP-41N. R-2b 480/277V. ELEC CLOS "N" 43rd TO 58th FLR'S FUTURE RUN 51st TO 58th FLR'S a. - INSTALL BUSWAY R-2b FROM SWGR. BUS #2 TO END CAP & "Y" TO EXISTING BUSWAY R-2 b. - REMOVE EXIST. BUSWAY R-2 TO EXIST. SWGR. * - INSTALL BUSWAY TRANSITION BOX ON EXISTING BUSWAY & CONNECT BUSWAY R-2b (ENERGIZE) R-2a 480/277V. ELEC CLOS "N" FUTURE RUN 43rd TO 50th FLR'S a. - INSTALL BUSWAY R-2a FROM SWGR. BUS #1 TO CAP. R-1: 208/120V. TRANSF. ELEC CLOS "N" 43-58th FLR'S SEE RISER DIAGRAM STAGE III STEP (1) DWG E-18. R-7 DAI-ICI KANGYO BANK - 43th FLR. a. - INSTALL R-7 CDT & WIRE BETWEEN CT CABINET & SWGR. BUS #1. * - CUT EXIST. FDR (R-7) IN CT CABINET & REMOVE BACK TO EXIST. SWGR. c. - SPLICE TO EXIST FDR (R-7) IN CT CABINET (ENERGIZE)

I HEREBY CERTIFY THAT THIS IS A TRUE AND CORRECT COPY OF ONE OF THE CONTRACT DRAWINGS CONSTITUTE A PART OF CONTRACT NO. 472-802-07 IN THE FORM IN WHICH SAID DRAWINGS EXISTED AT THE TIME THE SAID CONTRACT WAS EXECUTED BY THE PARTIES.

DATE 6/21/95 Sultan A. Aslam
SPEC. WRITER

DATE 8/5/95 Peter K. Seuring
ENGINEER OF DESIGN

NOTE

1. - FOR LEGEND SEE DWG. #E-1, FOR GENERAL NOTES AND ABBREVIATIONS SEE DWG. #E-2
2. - FOR NUMBER AND SIZE OF CONDUIT & WIRE SEE:
 - DWG. #E-13 - CONDUIT AND CABLE SCHEDULE
 - DWG. #E-97 - AITS CONNECTION DIAGRAM
3. - FOR A-3 WILL TEMPORARILY SUPPLY BOTH NEWLY INSTALLED & EXIST. BANK ELEV. TRANSFER SWITCHES. VIA "Y" SPLICE.
4. - CONDUIT CABLE AND BUSWAY DESCRIBED IN SCHEDULE STAGE III STEP (D) SHALL BE INSTALLED PRIOR TO ENERGIZING BUS #1, 2 & EL. FEEDERS THAT USE EXIST FEEDER CONDUITS SHALL BE INSTALLED WITH SWITCHGEAR ENERGIZED.
5. - ALL ELECTRICAL OUTAGES SHALL BE PERFORMED OUTSIDE NORMAL BUILDING OPERATING HOURS. SEE SPECIFICATIONS DIVISION 1 ENTITLED "CONDITIONS AND PRECAUTIONS" FOR FURTHER INFORMATION OF ELECTRICAL POWER OUTAGE CATEGORIES.